

RangeLand 30-13 Tub Zn/Cu

Type of Feed: Supplement

Form of Feed: Tub

General Description:

RangeLand 30-13 Tub ZN/CU is a free choice supplement designed for beef cattle on forage diets. This product is recommended for feeding situations where forage protein is 8% or less and with chronic copper deficiencies or areas with copper antagonists and needing supplemental protein and vitamins.

LAND O LAKES®
RANGELAND 30-13 TUB ZN/CU
FREE-CHOICE SUPPLEMENT FOR BEEF CATTLE ON FORAGE DIETS

GUARANTEED ANALYSIS

Crude Protein, Not less than.....	30.0 %
<i>(This includes not more than 13% equivalent protein from non-protein nitrogen.)</i>	
Crude Fat, Not less than.....	5.0 %
Crude Fiber, Not more than.....	2.5 %
Calcium (Ca), Not less than.....	1.75 %
Calcium (Ca), Not more than.....	2.75 %
Phosphorus (P), Not less than.....	1.0 %
Salt (NaCl).....	None Added
Potassium (K), Not less than	3.5 %
Magnesium (Mg), Not less than	1.0 %
Copper (Cu), ppm, Not less than	480
Zinc (Zn), ppm, Not less than	1440
Manganese (Mn), ppm, Not less than.....	450
Iodine (I), ppm, Not less than	24
Selenium (Se), ppm, Not less than	5
Vitamin A, I.U./lb, Not less than	80,000
Vitamin D ₃ , I.U./lb, Not less than.....	10,000
Vitamin E, I.U./lb, Not less than	50

FEEDING DIRECTIONS

1. Feed one tub per 20—25 head of cattle and at least 2 tubs per pasture to ensure adequate intake by younger, timid animals.
2. Place tubs within 100 feet of where animals congregate (loafing, grazing, feeding and watering areas).
3. Feed tubs continuously along with plentiful sources of forage and fresh clean water.
4. Cattle will consume approximately 1/2 to 1 pound of this supplement per head daily.
5. If additional mineral and vitamin fortification is needed, provide a nutritionally balanced mineral/vitamin supplement containing salt.
6. This product does not contain added salt, therefore, supplemental salt should be offered at all times.

CAUTION

Do not feed to sheep or allow sheep to have access to this product. This product contains high levels of supplemental copper.

INGREDIENTS

Molasses Products, Processed Grain By-Products, Plant Protein Products, Animal Protein Products, Monocalcium/Dicalcium Phosphate, Animal Fat, Calcium Carbonate, Sodium Hydroxide, Magnesium Oxide, Potassium Chloride, Vitamin A Supplement, Vitamin D₃ Supplement, Vitamin E Supplement, Zinc Sulfate, Manganese Sulfate, Ethylenediamine Dihydriodide, Cobalt Carbonate, Sodium Selenite, Ethoxyquin (a preservative), Basic Copper Chloride, Mineral Oil

Available Options:

Product No.	Options	Product Name
4671265-633	225 lb Plastic	RangeLand 30-13 Tub Zn/Cu 225#P
4671871-622	250 lb Fiber	RangeLand 30-13 Tub Zn/Cu 250#F

Product Features:**Product Benefits:**

Low moisture cooked molasses product technology

Consistent intake and nutrient delivery that helps eliminate over-consumption. Moisture from air and saliva from licking softens a thin layer on the surface of the tub. Lower levels remain protected and solid. Intake is regulated by availability to softened layer

Supplement delivery method that fits a variety of production systems

Convenient supplement delivery system is ideal for small beef producers with other time commitments, as well as large producers who experience time and labor shortages

Positive associative effects when fed with low to medium quality forages

Molasses provides readily-available energy to stimulate rumen fermentation that helps the animal extract more energy from the forage, as demonstrated by research showing increased forage intake and utilization

Natural protein (from vegetable and approved animal sources)

Supplies modest amounts of protein to maximize animal performance at an economical cost

Provides optimum levels of trace minerals at a 1 pound consumption rate

Aids in disease prevention, improves fertility, and promotes fetal development

Higher copper (480 ppm) and zinc (1440 ppm) levels

For areas with chronic copper deficiencies or areas with copper antagonists (high environmental molybdenum, sulfur or iron), while still maintaining the proper Zinc:Copper ratio

Non-returnable biodegradable fiber container. Non-returnable plastic container also available

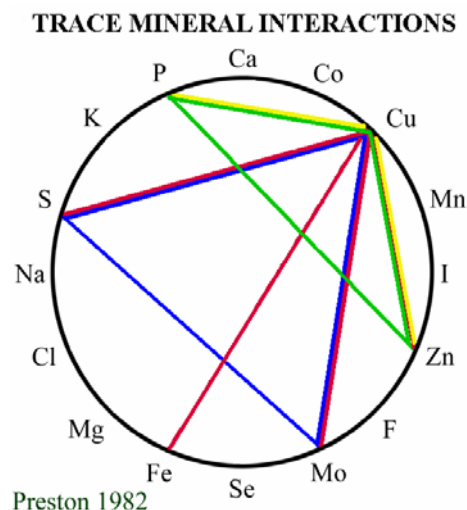
Labor saving supplement delivery system that reduces the biosecurity risks associated with returnable containers

No added salt

Intake is not regulated by salt as in other supplements. Using salt to regulate intake can be unpredictable and create more variable consumptions.

Usage Tips

Copper (CU) is involved in bone and blood formation, proper immune system function, hair and skin pigmentation and nerve function. High dietary levels of iron, sulfur, molybdenum and zinc negatively impact copper absorption and utilization (see figure below). Animals which are copper deficient may have scours, pale nasal and mouth membranes, or anemia. They may also have rough hair coats which may appear slightly orange on red cattle and gray on black cattle and be slightly curled on the ends. Another common symptom of copper deficiency is that animals may be slow to shed their winter coats (feeding endophyte infected fescue may create the same slow shed symptoms). These animals may also look gaunt, suffer with swollen joints and have abnormal hoof growth. Copper deficient animals may not grow to their genetic potential. Mature animals may lose weight. Animals which are slightly copper deficient (showing no obvious signs of deficiency) may also be more prone to health problems since copper is involved in keeping the immune system functioning properly.



Zinc (ZN) is an essential component of many enzymes and hormones. It plays an important role in the metabolism of proteins, fats and carbohydrates, making it vital to good growth rates. Zinc is involved in the proper function of the immune system and is needed to maintain healthy hair, skin and hooves. Zinc deficiency in growing animals is characterized by listlessness, decreased rate of weight gain; lower feed consumption and feed efficiency. Decreased testicular growth or poor sperm quality is to be expected in zinc deficient bulls. Zinc's role in skin integrity leads to the deficiency symptoms of swollen feet with open, scaly lesions; changes in hair coat color/texture; a general dermatitis on the neck, head and legs; and failure of wounds to heal. Zinc deficiency can be detrimental to female reproduction. Inadequate zinc during gestation may result in abortion, fetal mummification or lower birth weights.

RangeLand 30-13 Tub Zn/Cu are recommended for feeding to all cattle on diets composed largely of grass hay or for cattle grazing low quality range or grass pastures in areas of known copper deficiencies or known copper antagonists.

Optimum intake of RangeLand 30-13 Tub Zn/Cu is 0.5 to 1 lb. per head daily. Every 0.5 lb of RangeLand 30-13 Tub Zn/Cu delivers 109 mg copper and 326 mg zinc.

Initial placement of RangeLand 30-13 Tub Zn/Cu should be within 100 feet of loafing or watering areas. As animals become accustomed to the tubs, repositioning may be necessary to maintain proper consumption level. Move tubs further away to decrease consumption, closer to increase. Total surface area exposed to the herd will impact consumption. Increased surface area exposed will increase consumption. Read and follow label directions.

Animal condition as well as forage quality can impact consumption. If over-consumption occurs for more than two weeks, despite corrective measures, remove the tubs and evaluate the overall feeding program. Do not provide free access to starved animals.

The number of head per tub will affect consumption. To increase consumption, increase the number of tubs offered. To decrease consumption, decrease the number of tubs. As surface area of exposed tub increases, consumption increases. Each product will have recommendations for initial positioning.

Placement of tubs can also influence grazing patterns within a pasture. Place tubs in under-utilized areas of a pasture to entice grazing in that area.

RangeLand Protein Tub products contain no added salt, therefore, supplemental salt should be offered at all times.

CAUTION: Do not feed to sheep or allow sheep access to these products because of the high level of supplemental copper.

Key Points

1. RangeLand 30-13 Tub Zn/Cu can be offered any time forage quality is in question, or when a forage supplement is needed.
2. RangeLand 30-13 Tub Zn/Cu provides supplemental protein, energy, vitamins, and trace minerals, economically.
3. Ideal for feeding animals on dormant or other low quality forage (stock piled forage, crop residues, etc that provide less than 8% protein).
4. Ideal supplement for helping manage body condition through winter-feeding season.
5. RangeLand Protein Tubs are not designed for playing nutrition catch-up or when forage is in short supply.
6. Physical characteristics and cooking technology control consumption without the need for non-nutritive additives.

